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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207601F / <i>USAF Modeling and Simulation</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	16.838	19.283	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	36.121
674567: <i>M&S Foundations</i>	-	7.093	7.468	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14.561
675135: <i>Warfighter Readiness</i>	-	9.745	11.815	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.560

Note

In FY2024, PE 0207601F, USAF Modeling and Simulation, Project 674567, M&S Foundations, and Project 675135, Warfighter Readiness, efforts were transferred to PE 0801380F, AF LVC Operational Training (LVC-OT), Project 674567, M&S Foundations, and Project 675135, Warfighter Readiness, to meet higher priority AF Operational Readiness and Training efficiencies.

A. Mission Description and Budget Item Justification

Modeling and Simulation support to our Warfighter's Readiness is a United States Air Force (USAF) corporate imperative to ensure air, space, cyberspace training, and mission rehearsal activities are supported with realistic, interoperable, and readily available tools, data, services and environments. Warfighter readiness supports Department of Defense (DoD) Training Transformation (T2) and Joint National Training Capability (JNTC) along with the USAF priorities and core functions. Activities also include studies and analysis to support both current program planning, execution, and future program planning.

It includes several complimentary programs, initiatives and areas for investment: Warfighter and Joint Training Integration supports the Chief of Staff of the Air Force (CSAF) directed Live, Virtual, and Constructive (LVC) integration efforts and is a critical piece to the USAF's implementation of the Strategic Plan for Transforming DoD Training. The goal of LVC training and mission rehearsal is to prepare our warfighters for the full range of military operations and maintain the combat readiness levels required by the Combatant Commanders. This can only be accomplished by training and rehearsing in realistic operational environments. These environments include live training ranges and virtual simulators enhanced with constructive entities. Specific training and mission rehearsal events can include some or all of these simultaneously; making the ability to integrate LVC capabilities a necessity.

The Air, Space, and Cyberspace Constructive Environment (ASCCE) is the USAF's authoritative federation of constructive training models and tools realistically representing the tactical and operational capabilities the USAF brings to the joint fight. Project 675135, Warfighter Readiness, provides for the Command & Control Simulation Environment for Training (C2SET) development effort, which is modernizing the authoritative representation of AF and joint theater-level air and space power for training Air and Space Operations Center (AOC) personnel and Combatant Commanders' battle staffs. The primary models in development for C2SET are based on the AF common Advanced Framework for Simulation, Integration, and Modeling (AFSIM). C2SET will replace the current Air Force Modeling and Simulation Training Toolkit (AFMSTT).

The program element also contains Project 674567, M&S Foundations, the Air, Space and Cyberspace Collaborative Environment - Information Operations Suite (ACE-IOS). ACE-IOS is a federation of constructive models for the authoritative representation of Air Force Intelligence, Surveillance, and Reconnaissance (ISR), Electronic Warfare (EW), Information Operations (IO), and Cyber Effects on AF combat operations. The program supports multifaceted training and mission rehearsal for the Air

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Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207601F / <i>USAF Modeling and Simulation</i>
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Force at multiple training tiers, Joint Task Force commanders, and Combatant Commanders' battle staffs covering training from the AF schoolhouse through the Air Combatant Commander staff via Joint and Service exercises, tests, and experiments. This program also supports the DoD Training Transformation Initiative.

This program is part of the overarching Kessel Run portfolio and is leveraging the All Domain Common Platform (ADCP). The ADCP provides an extensible cloud based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient mission applications and data to Airmen deployed around the world.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY22 1.090M was expended for civilian pay expenses in this program element, and in FY23 1.269M is forecasted for civilian pay expenses in this program element.

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	17.110	19.341	33.522	0.000	33.522
Current President's Budget	16.838	19.283	0.000	0.000	0.000
Total Adjustments	-0.272	-0.058	-33.522	0.000	-33.522
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.272	-0.058	-33.522	0.000	-33.522

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation				Project (Number/Name) 674567 / M&S Foundations			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
674567: M&S Foundations	-	7.093	7.468	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14.561
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2024, PE 0207601F, USAF Modeling and Simulation, Project 674567, M&S Foundations, and Project 675135, Warfighter Readiness, efforts were transferred to PE 0801380F, AF LVC Operational Training (LVC-OT), Project 674567, M&S Foundations, and Project 675135, Warfighter Readiness, to meet higher priority AF Operational Readiness and Training efficiencies.

A. Mission Description and Budget Item Justification

Modeling and Simulation Foundations (MSF) focuses on integrating foundational capabilities needed to improve the usefulness of Modeling and Simulation (M&S) capabilities derived from the Warfighter Readiness (WR) thrust. The efforts supporting the MSF thrust include both concept exploration and development. MSF provides the capability to rapidly and efficiently create realistic and accurate synthetic operational battlespaces to support the full spectrum of activities associated with concept development to acquisition and testing through composite training and mission rehearsals.

ACE-IOS project is a federation of constructive models for the authoritative representation of Air Force ISR and Information Operations. ACE-IOS provides simulation modeling and stimulation systems, software, and contract support in support of ISR/Cyber training from the AF ISR Schoolhouse to Joint mission rehearsal for the Air Force, Joint Task Force commanders, and Combatant Commands battle staffs during Joint and Service exercises, tests and experiments.

ACE-IOS provides ISR and Cyber live-virtual-constructive (LVC) environments to support the Joint training of offensive and defensive ISR/Cyber capabilities for the AF, DoD, select Coalition, and national agencies. AF Joint ISR operational training is conducted by the AF Simulation centers worldwide using the ACE-IOS M&S models and stimulations with specific extensions in support of the Air Force Cyber Simulation Center (CSC) and the AF ISR schoolhouse. Overall development and integration efforts of the ACE-IOS program are imperative to ensure that air, space, and cyberspace training and mission rehearsal activities are supported with realistic, interoperable, and readily available tools, data, and services. Specific ACE-IOS capability enhancements are built in direct support of the Distributed Mission Operations Center for Cyberspace (DMOC-C) and the AF ISR schoolhouse. The specific cyber effects software extensions for DMOC-C are in support of the training and exercising of tactical cyber mission forces (CMF), cyber service providers (CSP), and operational-level command and control, intelligence, and cyber planners and operators supporting global operations.

LVC environments today are used as one of the most cost effective and practical means to meet mission needs. These efforts enable more efficient delivery of effective capabilities to the warfighter while reducing the time and resources required for design, development, test and evaluation, maintainability and sustainment.

Authorization and Accreditation and Networkiness is maintained via the Information Technology (IT) systems Risk Management Framework (RMF) for seven classified ACE-IOS configurations and two supported cross domain solutions, which includes code and ruleset development, testing, and fielding, and meets AF Joint Worldwide

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force	Date: March 2023
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Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation	Project (Number/Name) 674567 / M&S Foundations
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Intelligence Communications System (JWICS), AF Secret Internet Protocol Router Network (SIPRNET) and AF and Joint Staff training network net worthiness standards and evaluations.

This program also supports the DoD Training Transformation Initiative.

This program is part of the overarching Kessel Run portfolio and is leveraging the All Domain Common Platform (ADCP). The ADCP provides an extensible cloud based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient mission applications and data to Airmen deployed around the world.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY22 \$1.090M was expended for civilian pay expenses in this program element, and in FY23 \$1.349M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
<p>Title: Air, Space and Cyberspace Constructive Environment - Information Operations Suite (ACE-IOS)</p> <p>Description: Provides the authoritative representation of the AF ACE-IOS program. ACE- IOS is comprised of models that support training and mission rehearsal for the Air Force, Joint Task Force commanders, and Combatant Commander battle staffs during Joint and Service exercises and experimentations. Also supports shared ACE-IOS development in support of the AF ISR schoolhouse and DMOC-C extensions.</p> <p>FY 2023 Plans: Commenced and delivered ACE-IOS version & deployment Continued ACE-IOS agile development Continued integration with M&S support to Kessel Run common development</p> <p>FY 2024 Plans: Due to PE transfer, see detailed plans in PE 0801380F, AF LVC Operational Training (LVC-OT).</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreased due to the transfer of funding to PE 0801380F to meet higher priority AF Operational Readiness and Training Efficiencies.</p>	7.093	7.468	0.000
Accomplishments/Planned Programs Subtotals	7.093	7.468	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation	Project (Number/Name) 674567 / M&S Foundations

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	Total Cost
			Base	OCO	Total					Complete	
• OPAF 03 833140: <i>Strategic Command And Control</i>	0.668	30.738	9.962	-	9.962	5.413	1.866	1.883	28.316	0.000	78.846
• RDTE 07 0303248F: <i>All Domain Common Platform</i>	70.894	45.502	88.916	-	88.916	98.464	99.216	98.907	88.153	0.000	590.052

Remarks

N/A

D. Acquisition Strategy

The Acquisition goals of the Air, Space and Cyberspace Constructive Environment - Information Operations Suite (ACE-IOS) are achieved through incremental development of the project's M&S activities; all contracts are awarded using full and open competition. In order to meet evolving M&S technology and requirements and its modernization effort, the ACE-IOS program will leverage commercial best practices for agile software development.

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation	Project (Number/Name) 674567 / M&S Foundations

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Air, Space and Cyberspace Constructive Environment - Information Operations Suite (ACE-IOS)

- ACE-IOS v5.0.23		
-ACE-IOS v5.0.24		

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation	Project (Number/Name) 674567 / M&S Foundations

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Air, Space and Cyberspace Constructive Environment - Information Operations Suite (ACE-IOS)</i>				
- ACE-IOS v5.0.23	1	2022	4	2022
-ACE-IOS v5.0.24	1	2023	4	2023

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force										Date: March 2023		
Appropriation/Budget Activity 3600 / 7					R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation				Project (Number/Name) 675135 / Warfighter Readiness			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
675135: Warfighter Readiness	-	9.745	11.815	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	21.560
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY2024, PE 0207601F, USAF Modeling and Simulation, Project 674567, M&S Foundations, and Project 675135, Warfighter Readiness, efforts were transferred to PE 0801380F, AF LVC Operational Training (LVC-OT), Project 674567, M&S Foundations, and Project 675135, Warfighter Readiness, to meet higher priority AF Operational Readiness and Training efficiencies.

A. Mission Description and Budget Item Justification

Modeling and Simulation support to our Warfighter's Readiness is a United States Air Force (USAF) corporate imperative to ensure air, space, cyberspace training, and mission rehearsal activities are supported with realistic, interoperable, and readily available, tools, data, services and environments. Warfighter Readiness supports Department of Defense (DoD) Training Transformation (T2) and Joint National Training Capability (JNTC) along with the USAF priorities and core functions. Activities also include studies and analysis to support both current program planning, execution, and future program planning.

It includes several complimentary programs, initiatives and areas for investment: Warfighter and Joint Training Integration supports the Chief of Staff of the Air Force (CSAF) directed Live, Virtual, and Constructive (LVC) integration efforts and is a critical piece to the USAF's implementation of the Strategic Plan for Transforming DoD Training. The goal of LVC training and mission rehearsal is to prepare our warfighters for the full range of military operations and maintain the combat readiness levels required by the Combatant Commands. This can only be accomplished by training and rehearsing in realistic operational environments. These environments include live training ranges and virtual simulators enhanced with constructive entities. Specific training and mission rehearsal events can include some or all of these simultaneously; making the ability to integrate LVC capabilities a necessity.

The Air, Space, and Cyberspace Constructive Environment (ASCCE) is the USAF's authoritative federation of constructive training models and tools realistically representing the tactical and operational capabilities the USAF brings to the joint fight. This includes development effort for Command & Control Simulation Environment for Training (C2SET), which provides the authoritative representation of AF and Joint theater-level air and space power and is used to train Air and Space Operations Center (AOC) personnel and Combatant Commanders' battle staffs. C2SET is replacing the AFMSTT models with the proven core Advanced Framework for Simulation, Integration, and Modeling (AFSIM) scientific engine. The goal is toward a fully scalable and more scientific based modeling, simulation, and training stimulation to the Combined Forces Air Component Commander (CFACC). AFMSTT entered full sustainment in FY21 and continues to receive operational updates to maintain operational currency until C2SET fully replaces.

This program is part of the overarching Kessel Run portfolio and is leveraging the All Domain Common Platform (ADCP). The ADCP provides an extensible cloud based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient mission applications and data to Airmen deployed around the world.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation	Project (Number/Name) 675135 / Warfighter Readiness
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This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY22 \$1.090M was expended for civilian pay expenses in this program element, and in FY23 \$1.349M is forecasted for civilian pay expenses in this program element.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2022	FY 2023	FY 2024
Title: Command & Control Simulation Environment for Training (C2SET)	9.745	11.815	0.000
Description: Provides the authoritative representation of AF and joint theater-level air and space power and is used to train AOC personnel and Combat Commander's battle staffs			
FY 2023 Plans: -Continue AF M&S software consortium development efforts to meet M&S Modernization objective (replacing AFMSTT capabilities), Federate Object Models and C2 interfaces requirements			
FY 2024 Plans: Due to PE transfer, see detailed plans in PE 0801380F, AF LVC Operational Training (LVC-OT).			
FY 2023 to FY 2024 Increase/Decrease Statement: Funding decreased due to the transfer of funding to PE 0801380F to meet higher priority AF Operational Readiness and Training Efficiencies.			
Accomplishments/Planned Programs Subtotals			0.000

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 833140: <i>Strategic Command And Control</i>	0.668	30.738	9.962	-	9.962	5.413	1.866	1.883	28.316	0.000	78.846
• RDTE 07 0303248F: <i>All Domain Common Platform</i>	70.894	45.502	88.916	-	88.916	98.464	99.216	98.907	88.153	0.000	590.052

Remarks

N/A

D. Acquisition Strategy

The Acquisition goals of the Command & Control Simulation Environment for Training (C2SET) are achieved through incremental development of the project's M&S activities; all contracts are awarded using full and open competition. C2SET operates under authority of a Software Acquisition Pathway following DoDI 5000.87, Operation of a Software Acquisition Pathway Guidance. The desired end state is continuous delivery of all C2SET software.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force												Date: March 2023				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
3600 / 7				PE 0207601F / USAF Modeling and Simulation				675135 / Warfighter Readiness								
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
C2SET (FSO)	C/T&M	Full Spectrum Operations : Fairfax, VA	-	2.388	Jul 2022	4.406	Jul 2023	-		-		-	Continuing	Continuing	19.100	
C2SET (Omni)	C/T&M	Omni Federal : Gainesville, VA	-	4.494	Jul 2022	3.792	Jul 2023	-		-		-	Continuing	Continuing	19.100	
Subtotal			-	6.882		8.198		-		-		-	Continuing	Continuing	N/A	
Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
C2SET Direct Mission Support	Reqn	ATA : Vienna, VA	-	-		0.500	Jan 2023	-		-		-	Continuing	Continuing	-	
C2SET Civilian Direct Cite Authorizations for Product Development	Allot	AFLCMC/FZA : TBD	-	1.091	Oct 2021	1.269	Oct 2022	-		-		-	Continuing	Continuing	-	
Subtotal			-	1.091		1.769		-		-		-	Continuing	Continuing	N/A	
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Management Administration	C/Variou	AFLCMC : Hanscom AFB, MA	-	1.389	Oct 2021	1.400	Oct 2022	-		-		-	Continuing	Continuing	-	
Systems Engineering	SS/ Various	MITRE : Bedford, MA	-	0.383	Oct 2021	0.448	Oct 2022	-		-		-	Continuing	Continuing	-	
Subtotal			-	1.772		1.848		-		-		-	Continuing	Continuing	N/A	
Project Cost Totals			-	9.745		11.815		-		-		-	Continuing	Continuing	N/A	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Air Force							Date: March 2023			
Appropriation/Budget Activity 3600 / 7			R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation			Project (Number/Name) 675135 / Warfighter Readiness				
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation	Project (Number/Name) 675135 / Warfighter Readiness

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

Air, Space, and Cyberspace Constructive Environment (ASCCE)	
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C2SET	
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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207601F / USAF Modeling and Simulation	Project (Number/Name) 675135 / Warfighter Readiness

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Air, Space, and Cyberspace Constructive Environment (ASCCE)</i>				
C2SET	1	2022	4	2023